

CLAIMS

1. A method of making a polyamide mixed yarn comprising: simultaneously spinning a first group of filaments of a first polyamide and a second group of
5 filaments of a second polyamide different from the first polyamide; combining the first and second groups of filaments through an air interlacing jet; and winding up the interlaced filaments.
2. A method according to claim 1, wherein the first polyamide has a titanium
10 dioxide content less than 0.1% and preferably less than 0.01% by weight and the second polyamide has a titanium dioxide content greater than 0.3% and preferably greater than 1.0% by weight.
3. A method according to claim 1 or 2, wherein the first polyamide and the
15 second polyamide have different dyeing characteristics with anionic dyes or cationic dyes.
4. A method according to claim 3, wherein the first polyamide and the second
polyamide differ by at least 8 mols per 10^6 g in the concentration of amine end
20 groups (AEG).
5. A method according to any preceding claim, wherein the first polyamide is
a cationic-dye polyamide and the second polyamide is an anionic-dye polyamide.
- 25 6. A method according to any preceding claim, wherein the filaments of the first polyamide and the filaments of the second polyamide in the product yarn exhibit a difference of at least 10% in their boiling water shrinkage values as hereinbefore defined.
- 30 7. A method according to any preceding claim, wherein the amine component of the first polyamide comprises hexamethylene diamine and the second polyamide is a copolymer in which the amine component consists comprises a

mixture of hexamethylene diamine with at least 20% by weight of methyl pentamethylene diamine based on the total weight of diamine.

8. A method according to any preceding claim, wherein one of the said
5 groups of filaments is has a circular filament cross-section and the other of the said groups of filaments has a non-circular filament cross-section.

9. A method according to claim 8, wherein the non circular filaments have an
individual filament decitex of greater than 2.5 and the circular filaments have individual
10 decitex less than 2.

10. A method according to claim 9, wherein the non-circular filaments are trilobal
with modification ratio greater than 1.2 and less than 2.4.

15 11. A method according to any preceding claim, wherein the first group of filaments
is bright and trilobal with filament decitex greater than 2.5, modification ratio between
1.4 and 1.7 and made with basic dye polymer and the second group of filaments is dull
and circular with filament decitex less than 2 and made with acid dye polymer.

20 12. A method according to any preceding claim, further comprising the step of
texturing the mixed polyamide yarn by false twist texturing or airjet texturing.

13. A method according to any preceding claim, wherein the yarn is wound up
at a speed of at least 3000m/min

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14. A method according to claim 13, wherein the yarn is wound up substantially
without an intermediate drawing step, whereby the yarn is a partially oriented yarn
(POY).

30 15. A method according to claim 13, wherein the yarn undergoes an
intermediate drawing step before it is wound up.

16. A method according to any preceding claim, wherein the yarn has a tenacity of from about 25 to about 65 cN/tex and an elongation to break of from about 20 to about 90%.
- 5 17. A mixed polyamide yarn obtainable by a method according to any preceding claim comprising a first group of filaments of a first polyamide interlaced with a second group of filaments of a second polyamide different from the first polyamide.
- 10 18. A mixed polyamide yarn according to claim 17 which is a flat yarn.
19. A mixed polyamide yarn according to claim 17 which is a textured yarn.
20. A textile fabric comprising a yarn according to claim 17, 18 or 19.
- 15 21. A textile fabric according to claim 20 which has been dyed with an anionic dyestuff.
22. A textile fabric according to claim 20 which has been dyed with both
20 cationic and anionic dyestuffs.
23. A garment comprising a fabric according to claim 20, 21 or 22 in a visible portion thereof.